

**AMENDMENTS TO THE CLAIMS**

The following listing of the claims is provided in accordance with 37 C.F.R. 1.121:

1. (previously presented) A system for detecting a rub in a turbomachine comprising;  
a turbomachine;  
sensors monitoring turbomachine conditions; and  
an on site monitor in communication with the sensors, and loaded with instructions to implement a method for detecting whether a rub is occurring in the turbomachine.
2. (original) The system of claim 1 further comprising a server in communication with the on site monitor via an internet.
3. (original) A method for detecting a rub in a turbomachine, the method comprising:  
monitoring turbomachine conditions; and  
determining whether a rub is occurring.
4. (previously presented) A storage medium encoded with a machine-readable computer program code for detecting whether a rub is occurring in a turbomachine, the storage medium including instructions for causing a computer to implement a method comprising:  
obtaining data indicating turbomachine conditions; and  
determining whether a rub is occurring.
- 5.-50 (canceled).

51. (new) A system, comprising:  
a turbomachine;  
means for monitoring turbomachine conditions; and  
means for detecting whether a rub is occurring in the turbomachine.

52. (new) A system, comprising:  
a plurality of turbomachine sensors; and  
a rub detection system configured to monitor the plurality of turbomachine sensors and to detect a turbomachine rub event.

53. (new) The system of claim 52, comprising a turbomachine, wherein the plurality of turbomachine sensors are coupled to the turbomachine.

54. (new) A system, comprising:  
a rub detection system configured to monitor operational parameters of a turbomachine and to detect a turbomachine rub event.

55. (new) The system of claim 54, comprising a turbomachine, wherein the rub detection system is coupled to the turbomachine.

56. (new) A method, comprising:  
analyzing turbomachine operational data to detect a rub event in the turbomachine.

57. (new) The method of claim 56, comprising monitoring a turbomachine to obtain the operational data.

58. (new) The method of claim 57, wherein monitoring comprises monitoring the turbomachine on-site.

59. (new) The method of claim 57, wherein monitoring comprises remotely monitoring the operational data via a network.

60. (new) The method of claim 57, wherein monitoring comprises monitoring the operational data in at least substantially real time.

61. (new) The method of claim 56, wherein analyzing comprises detecting the rub event in at least substantially real time with operation of a turbomachine.